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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/883,938 | 06/20/2001 | Mikio Watanabe | 0905-0262P | 5230 |

2292 7590 01/03/2005

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| EXAMINER |
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PEYTON, TAMMARA R

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| ART UNIT | PAPER NUMBER |
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2182

DATE MAILED: 01/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/883,938

Applicant(s)

WATANABE ET AL.

Examiner

Tammara R Peyton

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 September 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 29 and 34-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 29 and 34-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. 09/014,383.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 29 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by *Ross et al.*, US 5,859,628.
2. As per claim 29, *Ross* teaches a charging apparatus for connecting to a communication apparatus (col. 9, lines 57-col. 10, lines 18), said communication apparatus performing data communication via a communication channel (310/316) connected to a computer (system 400 including motherboard 402 + processor 404 + IR controller, Fig. 5), said communication channel being used to make the connection between said charging apparatus and said communication apparatus, said communication channel including a communication line (Fig. 3,5) for data communication and a power supply line for supplying electric power (col. 4, lines 19-31), and said charging apparatus comprising a charging circuit for applying electric power, with which it is supplied through said power supply line

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108 from said computer (400) via said communication channel (310/316), to a connector of a data processing unit (PDA, 102) driven by a battery (114, Fig.2) installed in said data processing unit, the data processing unit being formed to have said connector in order to input electric power for charging the battery (col. 5, lines 46-48), and said data processing unit being freely attachable and detachable to said connector of said charging apparatus. (Abstract, col. 2, lines 53-col. 11)

3. As per claims 34 and 38, Ross teaches a method of charging a battery (114, Fig.4) using a charging apparatus connected to a communication apparatus, which is capable of performing data communication via a communication channel connected to a computer, and using said communication channel to make a connection wherein:

said communication channel includes a communication line for data communication and a power supply line for supplying electric,

said method comprising the steps of:

applying electric power, supplied through said power supply line from said computer via said communication channel, to a connector of a data processing unit driven by a battery installed in said data processing unit,

forming the data processing unit to have said connector in order to input electric power for charging the battery, and

charging said battery by the electric power applied. (Abstract, col. 2, lines 53-col. 11)

4. Ross teaches a charging apparatus in form of a PDA cradle that allows a PDA to be inserted in the cradle in order to exchange information with an onboard automobile computer via computer system 400 that is connected to the PDA cradle. Further, the PDA cradle provides power for recharging the PDA. The PDA is freely attachable and detachable from the charging apparatus.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 35-37 and 39-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Ross et al.*, US 5,859,628.

5. As per claims 35 and 39, *Ross* does not teach wherein the communication channel is a cable in accordance with IEEE 1394. *Ross* teaches wherein the communication channel is an IR data link communication channel standard. *Ross* also teaches providing a serial port between the PDA cradle and the vehicle's computer. One of ordinary skill would readily recognize that IEEE 1394 is a well-known communication standard. Therefore, it would not be out of the realm of *Ross* to establish a communication link between the PDA and the

vehicle's computer using another well-known communication standard such as IEEE 1394. Doing so would add and expand the flexibility of *Ross*' system.

6. As per claim 36 and 40, *Ross* teaches a method of a monitoring circuit via an indicator lamp that show the state of the PDA rechargeable battery, in other words, one of ordinary skill would readily recognize that the indicator could be one color when charging and another color when the PDA is fully charged.

7. As per claims 37 and 41, *Ross* does not teach of the data processing circuit being a digital camera. However, *Ross* teaches that the cradle could receive a cellular telephone as well as a PDA. Therefore, it would have been obvious that a host of other data processing circuits could be received by *Ross*' cradle and not depart from the claim invention. Further, connecting a digital camera which detachably connects to a cradle which allows the camera to communicate with a computing apparatus is well known in the art, thereby, making use of this device obvious to one of ordinary skill.

8. As per claim 42, *Ross* teaches a method of a monitoring circuit via an indicator lamp that show the state of the PDA rechargeable battery, it would have been obvious to one of ordinary skill at the time the invention was made that said battery will be charged by said charging circuit only if said power supply exceeds a determined maximum power consumption.

Response to Applicant's Arguments

Applicant argues that Ross' PDA cradle (charging apparatus) "receives power directly from a 12 volt DC input for recharging the PDA" and that "the connection to the vehicle controller and device and the power system are separately connected to the cradle and have separate origins," pgs. 6-7. Examiner disagrees with Applicant on this point. Fig. 4 of Ross' PDA cradle is connected to and integrated with a computer system 400. The cradle, 104 includes an infrared data link 316 (communication line) for communication to and from the PDA 102 to various functions of the vehicle via system 400. Also, Ross' teaches that power is supplied to the PDA by power supply 108 (charging apparatus, col. 5, lines 1-11) Power supply 108 is part of computer system 400 that is connected to the cradle via cradle connection 310.

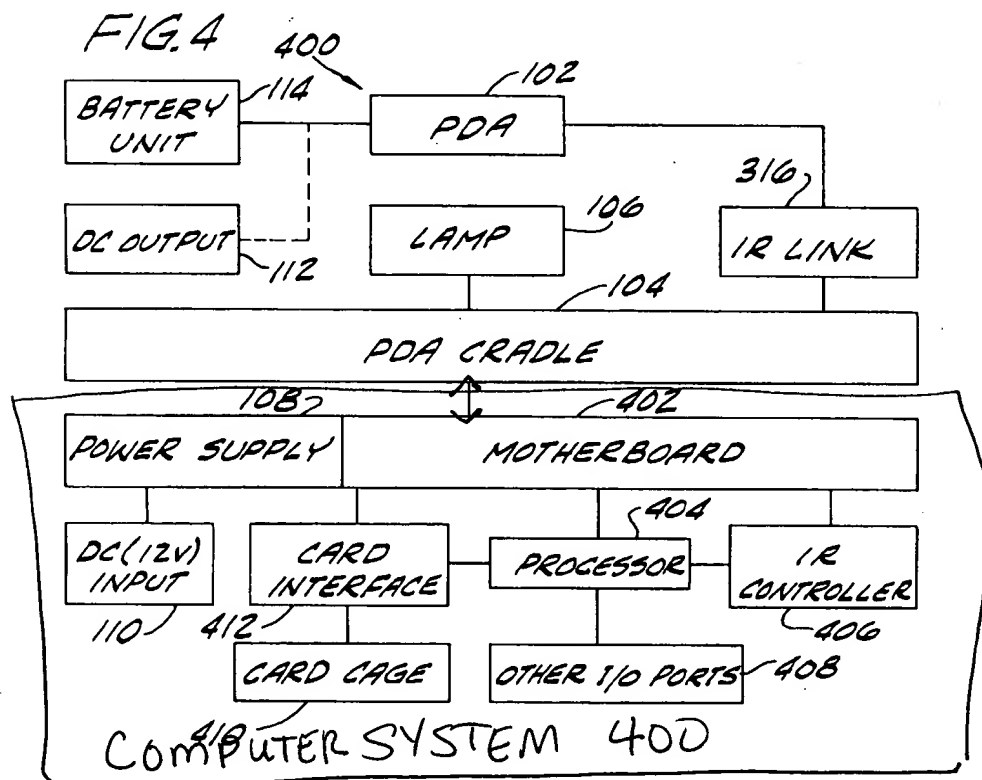
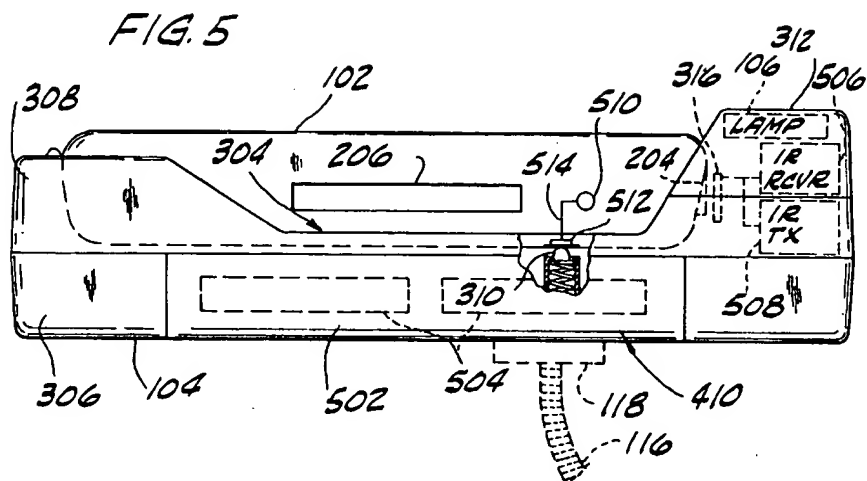
Applicant further argues that Ross' communication channel is not connected to a computer. Examiner disagrees with Applicant on this point. Ross' PDA cradle 104 is connected to computer system 400. The computer system includes motherboard 402 and processor 404 and IR controller, Figs. 4 and 5. Examiner is taking the position that cradle 104 includes a communication channel (316) and a power supply line connected and controlled via computer 400. Fig. 4 clearly shows a power supply line (108) from computer 400 via communication channel 310. (col. 5, lines 12-21, 56-58).

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Examiner previously pointed out that the cradle taught by *Ross* charges the battery of the PDA 114 via power supply 108 and the when the PDA is inserted in the cradle the PDA interacts with an onboard computer (col. 9, lines 57-col. 10, lines 18, Figs. 4 and 5, col. 5, lines 1-11). Applicant discloses a communication channel (50) including a signal line (52) and a power supply line (51) that as a whole provides power and data signals to a connected device. Examiner is taking the position that the cradle as a whole is part-charging apparatus and part communication apparatus connected to and communicates with computer system 400 for interaction with other onboard devices of the vehicle. The Office notes that what a reference can be said to fairly suggest relates to the concepts fairly contained therein, and is not limited by the specific structure chosen to illustrate such concepts. (see *In re Bascom*, 230 F.2d 612, 109 USPQ 98 (CCPA 1956)). Specifically, the cradle itself is connected to and communication with computer system 400 with a communication channel that supplies power to the PDA (via cradle connection 310) and a data interaction with an onboard computer (via cradle connection 316) and the PDA.

Conclusion

Applicant's amendment have necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (703) 306-5508. The examiner can normally be reached between 6:30 - 4:00 from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin, can be reached on (571) 272-4156. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3718. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231.

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Faxes for Official/formal (After Final) communications or for informal or draft communications (please label "PROPOSED" or "DRAFT") sent to:

(703) 872-9306

Hand-delivered responses should be brought to:

USTPO, 2011 South Clark Place, Customer Window

Crystal Plaza Two, Lobby Room 1B03, Arlington, VA, 22202Crystal Park II,
2121.

A handwritten signature in black ink, appearing to read 'Tammara Peyton', with a stylized, flowing script.

Tammara Peyton

December 23, 2004